

## ABSTRACT OF THE DISCLOSURE

In the process of the present invention, xylylenediamine and/or cyanobenzylamine is produced by a catalytic liquid-phase hydrogenation of a phthalonitrile compound. The liquid-phase hydrogenation is performed by  
5 controlling the concentration of a benzamide compound to a specific level or lower. In a preferred embodiment, the concentration of a benzoic acid compound is further controlled to a specific level or lower. By the process, xylylenediamine and/or cyanobenzylamine is produced at high yields and the catalyst life is prolonged.